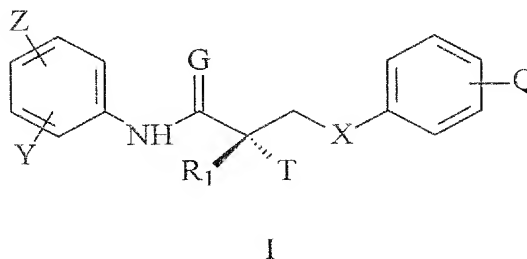


### AMENDMENTS TO THE CLAIMS

Please note that due to a typographical error the amended claim set filed January 2, 2008, was incorrectly numbered beginning with claim number 53. Original Claim 53 was incorporated into claim 52. Correction of the numbering error is being made and no other amendments have been made to the claims. Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. *(Previously Presented)* A metabolite of a selective androgen receptor modulator (SARM) compound, wherein said SARM is represented by the structure of formula I:



wherein G is O or S;

X is O;

T is OH, OR, -NHCOCH<sub>3</sub>, or NHCOR;

Z is NO<sub>2</sub>, CN, COOH, COR, NHCOR or CONHR;

Y is CF<sub>3</sub>, F, I, Br, Cl, CN, C(R)<sub>3</sub> or Sn(R)<sub>3</sub>;

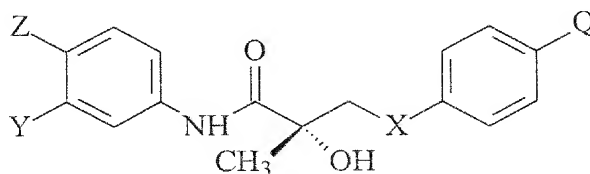
Q is acetamido or trifluoroacetamido;

R is alkyl, haloalkyl, dihaloalkyl, trihaloalkyl, CH<sub>2</sub>F, CHF<sub>2</sub>, CF<sub>3</sub>, CF<sub>2</sub>CF<sub>3</sub>, aryl, phenyl, F, Cl, Br, I, alkenyl or OH; and

R<sub>1</sub> is CH<sub>3</sub>, CH<sub>2</sub>F, CHF<sub>2</sub>, CF<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, or CF<sub>2</sub>CF<sub>3</sub>; and

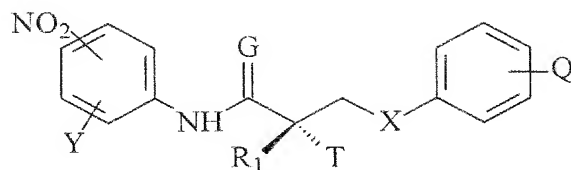
wherein said metabolite is an hydroxylated, deacetylated, hydrolyzed, or aminated derivative of compound of formula (I).

2. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein G is O.
3. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein T is OH.
4. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein R1 is CH<sub>3</sub>.
5. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein Z is CN.
6. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein Y is CF<sub>3</sub>.
7. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein Q is in the para position.
8. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein Z is in the para position.
9. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein Y is in the meta position.
10. *(Cancelled)*
11. *(Cancelled)*
12. *(Previously Presented)* The selective androgen receptor modulator metabolite of claim 1, wherein said SARM is represented by the structure of formula II:



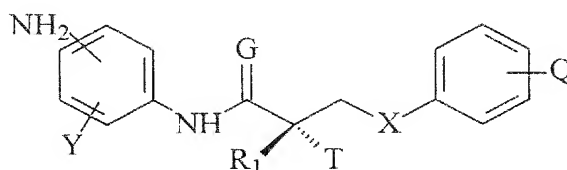
II

13. *(Previously Presented)* The selective androgen receptor modulator metabolite of claim 1, wherein said SARM is represented by the structure of formula VII:

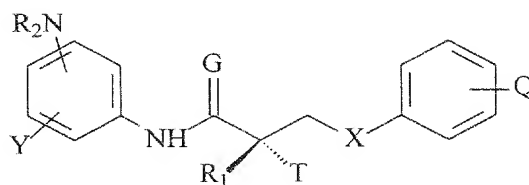


VII

14. *(Previously Presented)* The selective androgen receptor modulator metabolite of claim 13, wherein said metabolite is represented by the structure:

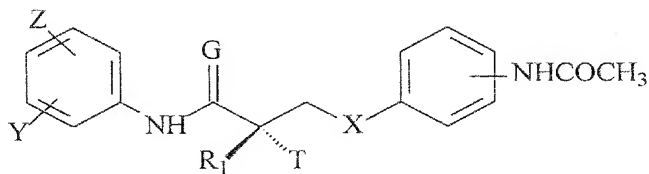


15. *(Original)* The selective androgen receptor modulator metabolite of claim 13, wherein said metabolite is represented by the structure:



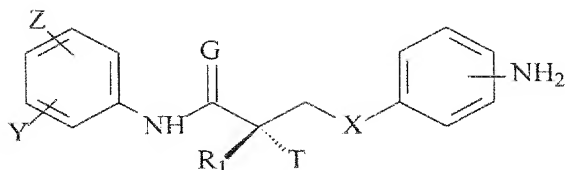
wherein  $NR_2$  is NO, NHOH,  $NHOSO_3$ , or NHO-glucoronide.

16. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein said SARM is represented by the structure of formula VIII:



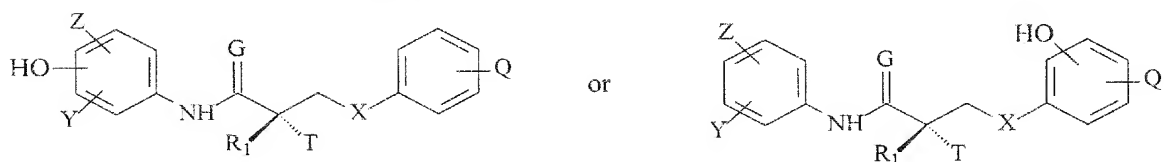
VIII

17. *(Original)* The selective androgen receptor modulator metabolite of claim 16, wherein said metabolite is represented by the structure:

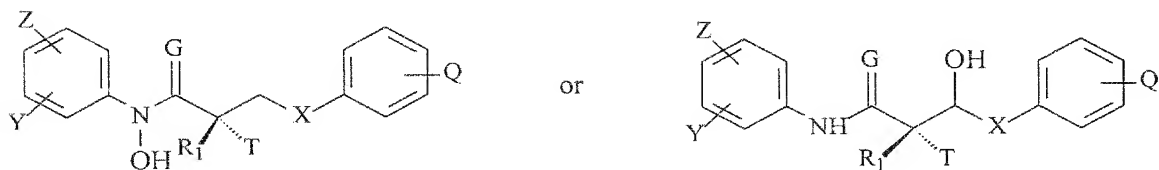


18. *(Original)* The selective androgen receptor modulator metabolite of claim 1, wherein said metabolite is a hydroxylated derivative of the SARM compound of formula I.

19. *(Original)* The selective androgen receptor modulator metabolite of claim 18, wherein said metabolite is represented by the structure:

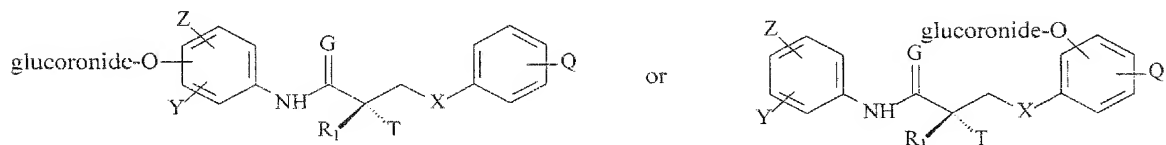


20. *(Original)* The selective androgen receptor modulator metabolite of claim 18, wherein said metabolite is represented by the structure:

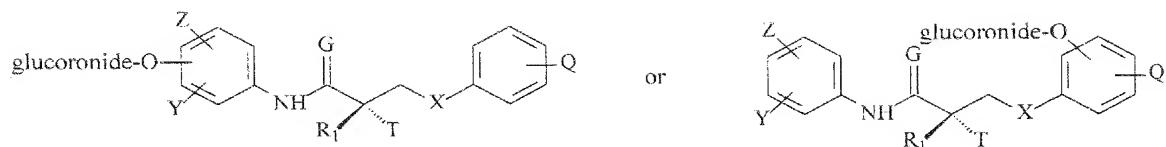


21. *(Withdrawn)* The selective androgen receptor modulator metabolite of claim 1, wherein said metabolite is an O-glucuronide derivative of the SARM compound of formula I.

22. *(Withdrawn)* The selective androgen receptor modulator metabolite of claim 21, wherein said metabolite is represented by the structure:

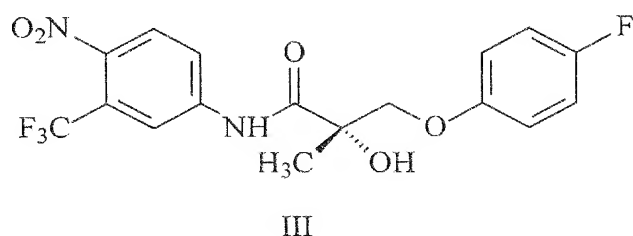


23. *(Withdrawn)* The selective androgen receptor modulator metabolite of claim 21, wherein said metabolite is represented by the structure:

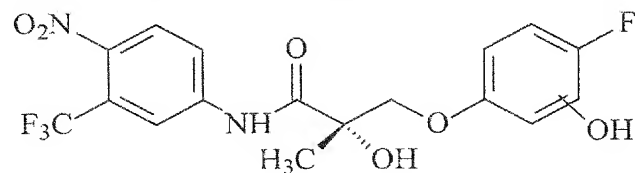


24. (Cancelled)

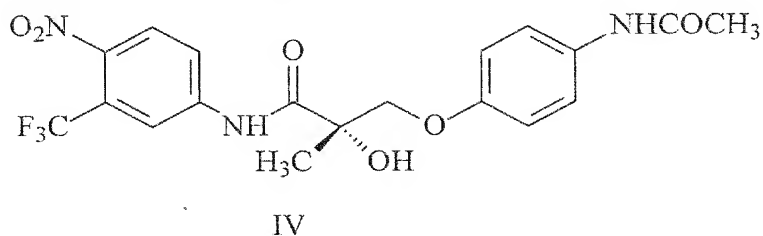
25. (Previously Presented) The selective androgen receptor modulator metabolite of claim 1, wherein said SARM is represented by the structure of formula III:



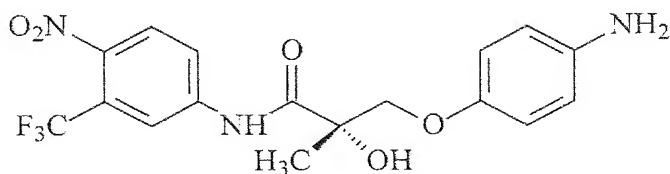
26. (Previously Presented) The selective androgen receptor modulator metabolite of claim 25, wherein said metabolite is represented by the structure:



27. (Previously Presented) The selective androgen receptor modulator metabolite of claim 1, wherein said SARM is represented by the structure of formula IV:



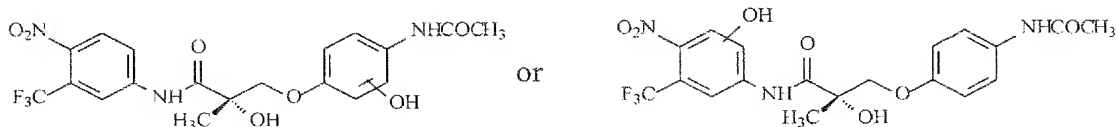
28. (Previously Presented) The selective androgen receptor modulator metabolite of claim 27, wherein said metabolite is represented by the structure:



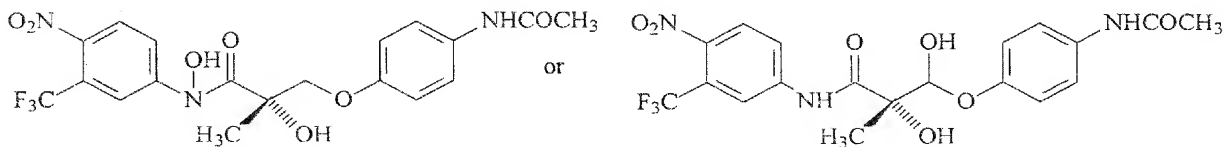
Page 7

29. (Original) The selective androgen receptor modulator metabolite of claim 27, wherein said metabolite is a hydroxylated derivative of the SARM compound of formula IV.

30. (Previously Presented) The selective androgen receptor modulator metabolite of claim 29, wherein said metabolite is represented by the structure:

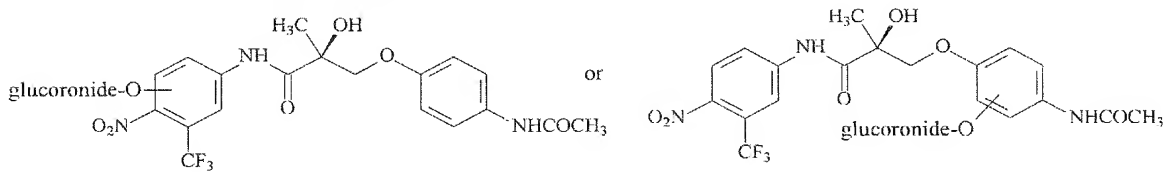


31. (Previously Presented) The selective androgen receptor modulator metabolite of claim 29, wherein said metabolite is represented by the structure:

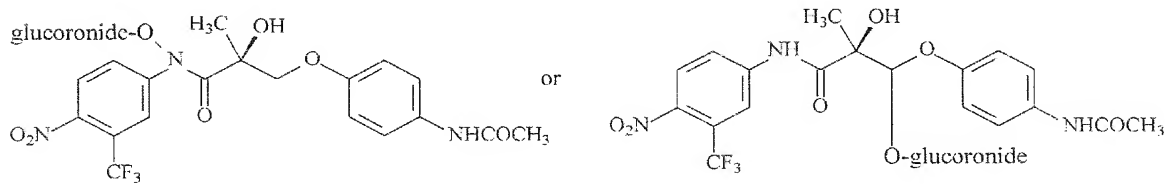


32. (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 27, wherein said metabolite is an O-glucuronide derivative of the SARM compound of formula I.

33. (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 32, wherein said metabolite is represented by the structure:



34. (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 32, wherein said metabolite is represented by the structure:



35. (Cancelled)

36. *(Original)* A composition comprising the selective androgen receptor modulator metabolite of claim 1; and a suitable carrier or diluent.

37. *(Original)* A pharmaceutical composition comprising an effective amount of the selective androgen receptor modulator metabolite of claim 1; and a pharmaceutically acceptable carrier or diluent.

38. *(Withdrawn)* A method of binding a selective androgen receptor modulator compound to an androgen receptor, comprising the step of contacting the androgen receptor with the selective androgen receptor modulator metabolite of claim 1, in an amount effective to bind the selective androgen receptor modulator metabolite to the androgen receptor.

39. *(Withdrawn)* A method of suppressing spermatogenesis in a subject comprising contacting an androgen receptor of the subject with the selective androgen receptor modulator metabolite of claim 1, in an amount effective to suppress sperm production.

40. *(Withdrawn)* A method of contraception in a male subject, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to suppress sperm production in said subject, thereby effecting contraception in said subject.

41. *(Withdrawn)* A method of hormone therapy comprising the step of contacting an androgen receptor of a subject with the selective androgen receptor modulator metabolite of claim 1, in an amount effective to effect a change in an androgen-dependent condition.

42. *(Withdrawn)* A method of hormone replacement therapy comprising the step of contacting an androgen receptor of a subject with the selective androgen receptor modulator metabolite of claim 1, in an amount effective to effect a change in an androgen-dependent condition.

43. *(Withdrawn)* A method of treating a subject having a hormone related condition, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to effect a change in an androgen-dependent condition.

44. *(Withdrawn)* A method of treating a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor

modulator metabolite of claim 1, in an amount effective to treat prostate cancer in said subject.

45. *(Withdrawn)* A method of preventing prostate cancer in a subject, comprising the step of administering to said subject the selective androgen receptor modulator produg of claim 1, in an amount effective to prevent prostate cancer in said subject.

46. *(Withdrawn)* A method of delaying the progression of prostate cancer in a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to delay the progression of prostate cancer in said subject.

47. *(Withdrawn)* A method of preventing the recurrence of prostate cancer in a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to prevent the recurrence of prostate cancer in said subject.

48. *(Withdrawn)* A method of treating the recurrence of prostate cancer in a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to treat the recurrence of prostate cancer in said subject.

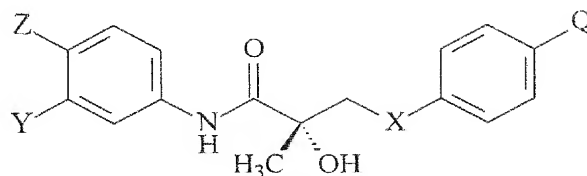
49. *(Withdrawn)* A method of treating a dry eye condition in a subject suffering from dry eyes, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to treat dry eyes in said subject.

50. *(Withdrawn)* A method of preventing a dry eye condition in a subject, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 1, in an amount effective to prevent dry eyes in said subject.

51. *(Withdrawn)* A method of inducing apoptosis in a cancer cell, comprising the step of contacting said cell with the selective androgen receptor modulator metabolite of claim 1, in an amount effective to induce apoptosis in said cancer cell.

52. *(Previously Presented)* A metabolite of a selective androgen receptor modulator (SARM) compound, wherein said SARM compound is represented by the structure of formula II:





II

wherein X is O;  
Z is NO<sub>2</sub>, CN, COOH, COR, NHCOR or CONHR;  
Y is CF<sub>3</sub>, F, I, Br, Cl, CN, C(R)<sub>3</sub> or Sn(R)<sub>3</sub>;  
Q is acetamido or trifluoroacetamido;  
R is alkyl, haloalkyl, dihaloalkyl, trihaloalkyl, CH<sub>2</sub>F, CHF<sub>2</sub>, CF<sub>3</sub>,  
CF<sub>2</sub>CF<sub>3</sub>, aryl, phenyl, F, Cl, Br, I, alkenyl or OH; and  
R<sub>1</sub> is CH<sub>3</sub>, CH<sub>2</sub>F, CHF<sub>2</sub>, CF<sub>3</sub>, CH<sub>2</sub>CH<sub>3</sub>, or CF<sub>2</sub>CF<sub>3</sub>; and  
wherein said metabolite is an hydroxylated, deacetylated, or aminated  
derivative of compound of formula (II).

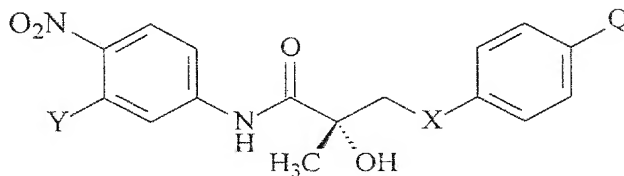
53. (Original) The selective androgen receptor modulator metabolite of claim 52, wherein Z is CN.

[[53]] 54 (Original) The selective androgen receptor modulator metabolite of claim 52, wherein Y is CF<sub>3</sub>.

[[54]] 55 (Original) The selective androgen receptor modulator metabolite of claim 52, wherein said compound is an androgen receptor agonist.

[[55]] 56 (Original) The selective androgen receptor modulator metabolite of claim 52, wherein said compound is an androgen receptor antagonist.

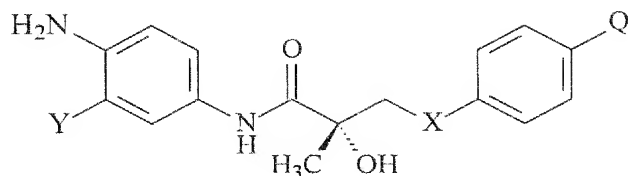
[[56]] 57 (Previously Presented) The selective androgen receptor modulator metabolite of claim 52, wherein said SARM is represented by the structure of formula IX:



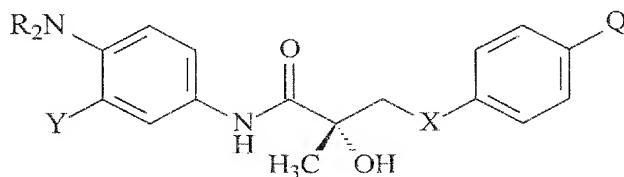
IX

[[57]] 58 (Previously Presented) The selective androgen receptor modulator

metabolite of claim 57, wherein said metabolite is represented by the structure:

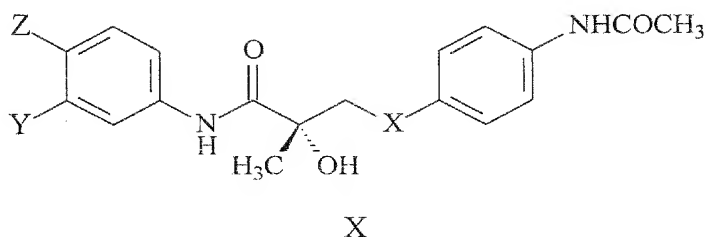


[[58]]\_59 (Previously Presented) The selective androgen receptor modulator metabolite of claim 57, wherein said metabolite is represented by the structure:

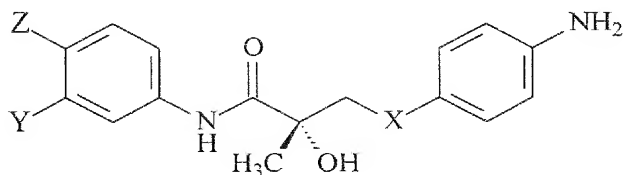


wherein N(R)<sub>2</sub> is NHOH, NO, NHOSO<sub>3</sub>, or NHO-glucoronide.

[[59]]\_60 (Previously Presented) The selective androgen receptor modulator metabolite of claim 52, wherein said SARM is represented by the structure of formula X:



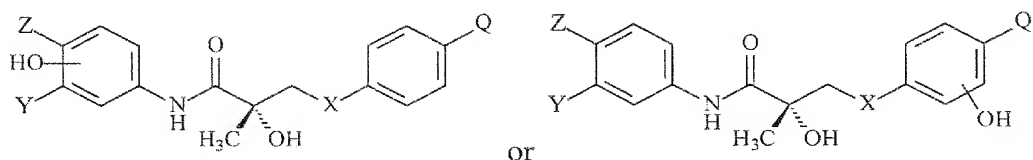
[[60]]\_61 (Previously Presented) The selective androgen receptor modulator metabolite of claim 60, wherein said metabolite is represented by the structure:



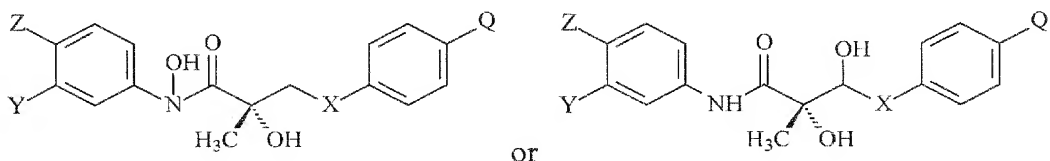
[[61]]\_62 (Original) The selective androgen receptor modulator metabolite of claim 52, wherein said metabolite is a hydroxylated derivative of the SARM compound of formula II.

[[62]]\_63 (Previously Presented) The selective androgen receptor modulator

metabolite of claim 62, wherein said metabolite is represented by the structure:

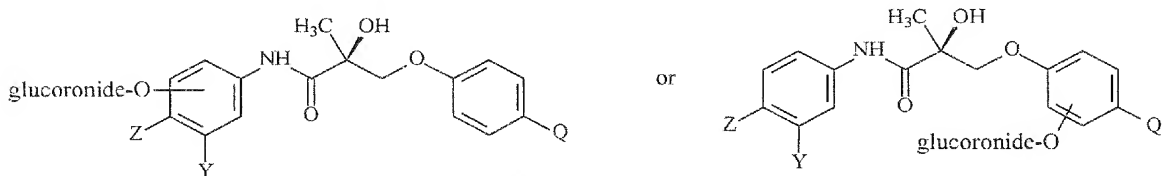


[[63]] 64 (*Previously Presented*) The selective androgen receptor modulator metabolite of claim 62, wherein said metabolite is represented by the structure:

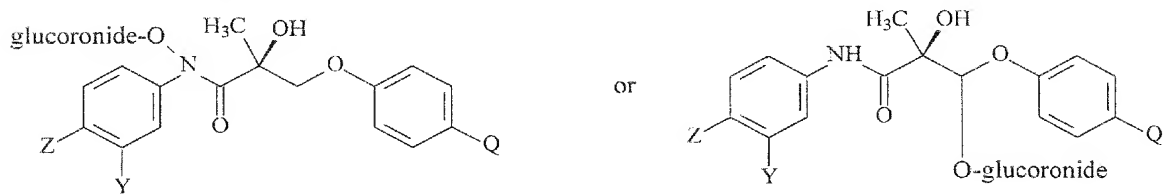


[[64]] 65 (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 52, wherein said metabolite is an O-glucuronide derivative of the SARM compound of formula II.

[[65]] 66 (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 65, wherein said metabolite is represented by the structure:

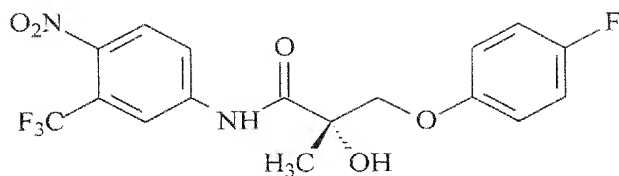


[[66]] 67 (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 65, wherein said metabolite is represented by the structure:



[[67]] 68 (*Cancelled*)

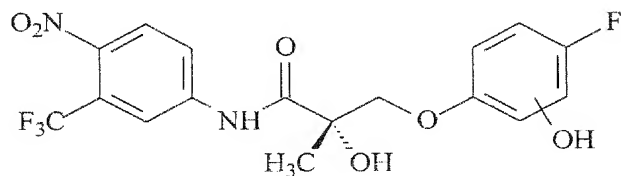
[[68]] 69 (*Previously Presented*) A metabolite of a selective androgen receptor modulator (SARM) compound, wherein said SARM compound is represented by the structure of formula III:



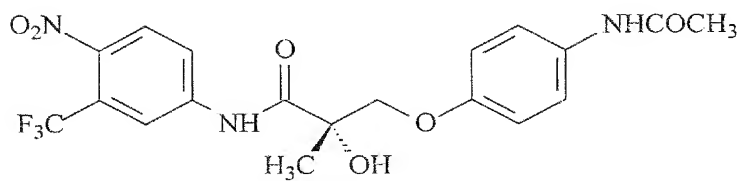
III

wherein said metabolite is an hydroxylated, or aminated derivative of compound of formula (II).

[[69]] 70 (*Previously Presented*) The selective androgen receptor modulator metabolite of claim 69, wherein said metabolite is represented by the structure:

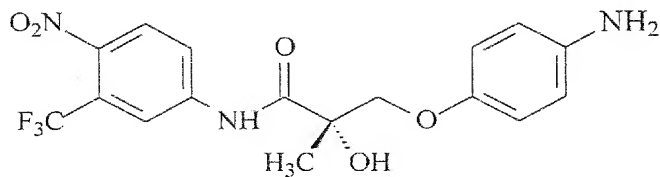


[[70]] 71 (*Previously Presented*) The selective androgen receptor modulator metabolite of claim 52, wherein said SARM is represented by the structure of formula IV:



IV

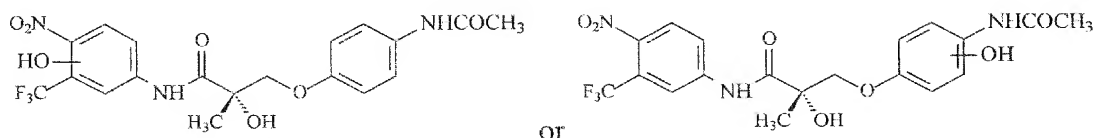
[[71]] 72 (*Previously Presented*) The selective androgen receptor modulator metabolite of claim 71, wherein said metabolite is represented by the structure:



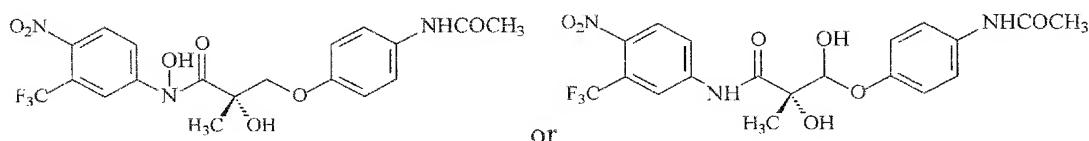
[[72]] 73 (*Original*) The selective androgen receptor modulator metabolite of claim 71, wherein said metabolite is a hydroxylated derivative of the SARM compound of

formula IV.

[[73]] 74 (*Previously Presented*) The selective androgen receptor modulator metabolite of claim 73, wherein said SARM metabolite is represented by the structure:

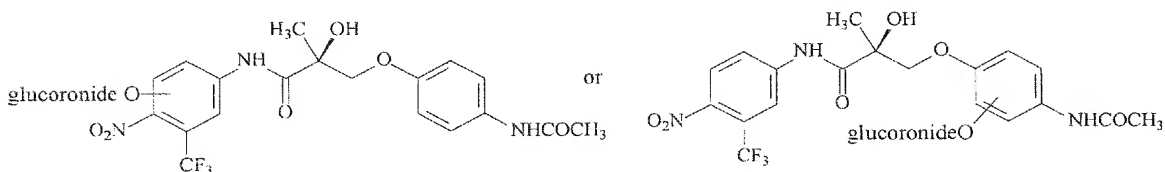


[[74]] 75 (*Previously Presented*) The selective androgen receptor modulator metabolite of claim 73, wherein said metabolite is represented by the structure:

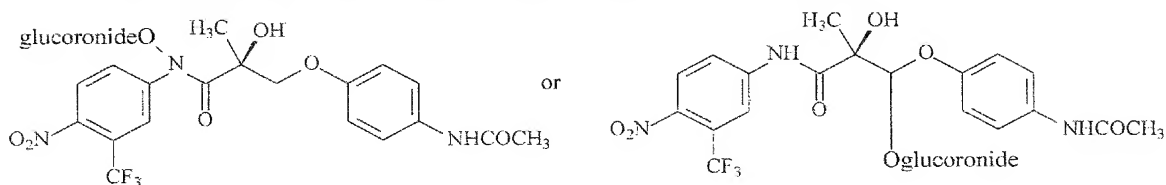


[[75]] 76 (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 71, wherein said metabolite is an O-glucuronide derivative of the SARM compound of formula IV.

[[76]] 77 (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 76, wherein said metabolite is represented by the structure:



[[77]] 78 (*Withdrawn*) The selective androgen receptor modulator metabolite of claim 76, wherein said metabolite is represented by the structure:



[[78]] 79 (*Cancelled*)

[[79]] 80 (*Original*) A composition comprising the selective androgen receptor

modulator metabolite of claim 52; and a suitable carrier or diluent.

[[80]] 81 (*Original*) A pharmaceutical composition comprising an effective amount of the selective androgen receptor modulator metabolite of claim 52; and a pharmaceutically acceptable carrier or diluent.

[[81]] 82 (*Withdrawn*) A method of binding a selective androgen receptor modulator compound to an androgen receptor, comprising the step of contacting the androgen receptor with the selective androgen receptor modulator metabolite of claim 52, in an amount effective to bind the selective androgen receptor modulator metabolite to the androgen receptor.

[[82]] 83 (*Withdrawn*) A method of suppressing spermatogenesis in a subject comprising contacting an androgen receptor of the subject with the selective androgen receptor modulator metabolite of claim 52, in an amount effective to suppress sperm production.

[[83]] 84 (*Withdrawn*) A method of contraception in a male subject, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 52, in an amount effective to suppress sperm production in said subject, thereby effecting contraception in said subject.

[[84]] 85 (*Withdrawn*) A method of hormone therapy comprising the step of contacting an androgen receptor of a subject with the selective androgen receptor modulator metabolite of claim 52, in an amount effective to effect a change in an androgen-dependent condition.

[[85]] 86 (*Withdrawn*) A method of hormone replacement therapy comprising the step of contacting an androgen receptor of a subject with the selective androgen receptor modulator metabolite of claim 52, in an amount effective to effect a change in an androgen-dependent condition.

[[86]] 87 (*Withdrawn*) A method of treating a subject having a hormone related condition, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 52, in an amount effective to effect a change in an androgen-dependent condition.

[[87]] 88 (*Withdrawn*) A method of treating a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor

modulator metabolite of claim 52, in an amount effective to treat prostate cancer in said subject.

[[88]] 89 (*Withdrawn*) A method of preventing prostate cancer in a subject, comprising the step of administering to said subject the selective androgen receptor modulator produg of claim 52, in an amount effective to prevent prostate cancer in said subject.

[[89]] 90 (*Withdrawn*) A method of delaying the progression of prostate cancer in a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 32, in an amount effective to delay the progression of prostate cancer in said subject.

[[90]] 91 (*Withdrawn*) A method of preventing the recurrence of prostate cancer in a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 52, in an amount effective to prevent the recurrence of prostate cancer in said subject.

[[91]] 92 (*Withdrawn*) A method of treating the recurrence of prostate cancer in a subject suffering from prostate cancer, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 52, in an amount effective to treat the recurrence of prostate cancer in said subject.

[[92]] 93 (*Withdrawn*) A method of treating a dry eye condition in a subject suffering from dry eyes, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 52, in an amount effective to treat dry eyes in said subject.

[[93]] 94 (*Withdrawn*) A method of preventing a dry eye condition in a subject, comprising the step of administering to said subject the selective androgen receptor modulator metabolite of claim 52, in an amount effective to prevent dry eyes in said subject.

[[94]] 95 (*Withdrawn*) A method of inducing apoptosis in a cancer cell, comprising the step of contacting said cell with the selective androgen receptor modulator metabolite of claim 52, in an amount effective to induce apoptosis in said cancer cell.